Gefen tv®

DOLBY VOLUME DIGITAL

2.1 Audio Amplifier w/ Volume Stabilizer

GTV-VOLCONT-DA

User Manual

gefentv.com

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Notice

Gefen LLC reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

For the latest firmware updates for this product, please visit Gefen's download Web page at http://www.gefen.com/kvm/support/download.jsp

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Rev A1

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INTRODUCTION

Congratulations on your purchase of the GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer. Your complete satisfaction is very important to us.

GefenTV

GefenTV is a unique product line catering to the growing needs for innovative home theater solutions. We specialize in total integration for your home theater, while also focusing on going above and beyond customer expectations to ensure you get the most from your hardware. We invite you to explore our distinct product line and hope you find your solutions.

The GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer

The GefenTV 2.1 Audio Amplifier w/Volume Stabilizer is well suited for use in small home entertainment systems or as an add-on audio processor to any computer audio output. It offers three audio inputs (TOSLINK®, S/PDIF, Analog L/R) for multiple audio sources. The product also incorporates a Dolby® Digital decoder decoder to downmix 5.1 to 2.1 channels of audio. Dolby® Volume Technology automatically outputs consistent audio levels regardless of the program type (commercials, movies, or TV shows). The GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer provides amplification of up to 25 Watts per channel (Left and Right) fed through the unit's speaker output binding posts plus line-level output for a powered subwoofer. This product switches to standby mode when not in use. An RS-232 port is provided for home automation control. For easy access and control, use the front panel control buttons with an illuminated LCD display, or the included IR remote control from several feet away.

How It Works

Connect the audio input source(s) to the GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer. Connect the speakers using speaker wires (not included) to the Speaker Output binding posts. Connect the included RS-232 cable from the RS-232 port to your home automation control device (optional). Plug in the included power supply to the 24V DC power jack on the rear panel of the unit and to a power outlet. Use the front panel buttons or the included IR remote to control the front panel display menu functions, Mute, Input Select, Bypass, and Standby mode.

READ THESE NOTES BEFORE INSTALLING OR OPERATING THE GEFENTV2.1 AUDIO AMPLIFIER W/ VOLUME STABILIZER

- GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer will use psycho-acoustic technology to adjust volume automatically. It is best used for TV programming where the level of sound rises and falls to an unacceptable level.
- The device can be placed in Bypass Mode in situations where a wide dynamic range is appropriate (such as movies and classical symphony concerts). Bypass Mode disables the Dolby Volume Stabilizer.
- The remote can be used to control the GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer from a comfortable distance.
- This unit supports the following conversions:

  Analog to Analog (two-channel stereo to two-channel stereo).

  Digital to Analog (optical / coaxial to two-channel stereo).

FEATURES

Dolby® Volume features:

- Volume Leveler: Enables consistent volume levels at all times between TV channels and between program materials
- Volume Modeler: Delivers the perception of a full-range audio experience at any volume level
- Audio settings can be customized to suit your personal preferences and listening conditions.
- Improves multichannel surround, even at low volumes.
- Produces clear audio with no unwanted noise.

Features

- Dolby® Volume and Dolby® Digital Certified
- Adjustable Dolby Volume Level
- Prevents fluctuations in audio volume using Dolby Volume technology
- Accepts 2-channel analog audio and outputs 2.1 channel audio
- Accepts TOSLINK™ (optical) and S/PDIF (coax) digital audio inputs
- Accepts Dolby Digital 5.1 and converts it to 2.1 channel analog audio
- Dynamically boosts low and high-frequency content
- Bypass Mode permits audio to pass through unchanged
- Audio amplifier (2 channels, 25 W per channel)
- Line-level analog L/R outputs plus subwoofer output
- RS-232 port for home automation control
- IR remote control and front panel controls

Package Includes

(1) GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer
(1) Analog Audio L/R RCA cable
(1) IR Remote Control Unit
(1) 24 V DC Power Adapter
(1) User Manual

Front Panel

DOLBY VOLUME DIGITAL
Mute
Standby
Menu
Input
Bypass
Enter
OPTICAL +04DB
PCM 2CH DDV OFF
2.1 Audio Amplifier w/ Volume Stabilizer
Gefen TV
1
2
3
4
5
6
7
8
9
10
11

FRONT PANEL DESCRIPTIONS

1 Main LCD Display
This display will show pertinent status information and will be used to make adjustments to features in the Menu System.

2 Left Cursor Button
This button is used to navigate the Menu System and change settings by moving the cursor to the left.

3 Enter Button
This button is used to accept and save a current setting in the Menu System.

4 Up Button
This button is used to navigate the Menu System and change settings by moving the cursor up. This button is also used for increasing the audio volume in the Status Screen (see page 13).

5 Right Cursor Button
This button is used to navigate the Menu System and change settings by moving the cursor to the right.

6 Down Button
This button is used to navigate the Menu System and change settings by moving the cursor down. This button is also used for decreasing the audio volume in the Status Screen (see page 13).

7 Input Button
Selects between analog L/R, S/PDIF, or TOSLINK audio input.

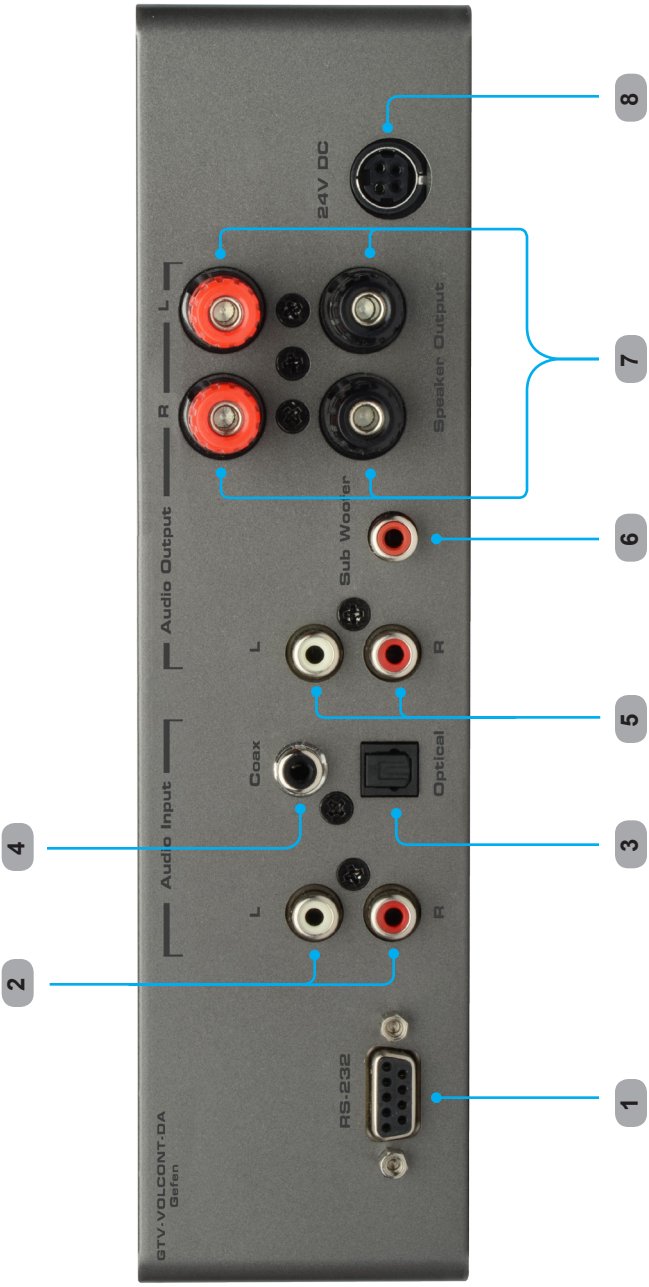
8 Menu Button
This button will activate the Menu System which allows changes to audio output.

9 Bypass Button
Press the Bypass button to disable Dolby Volume processing.

10 Mute Button
This button will cycle between Mute-On and Mute-Off modes. When the Mute-On mode is enabled, all audio output is disabled.

11 Standby Button
Press the Standby button to place the unit in Standby Mode. Standby Mode is an energy-saving state where less than 1W of power is consumed when the product is not in use.

Back Panel


GTV-VOLCONT-DA
Gefen
RS-232
Audio Input
L
R
Coax
Optical
Audio Output
L
R
Sub Woofer
Speaker Output
24V DC
1
2
3
4
5
6
7
8

BACK PANEL DESCRIPTIONS

1 RS-232 Serial Port
This port is used for serial communication using an RS-232 control device. Access to certain features are only available through the RS-232 interface.

2 Analog L/R (RCA) Input
Connect an RCA L/R stereo pair from the source to these two ports.

3 Optical (TOSLINK) Input
Connect an Optical cable from the source to this port.

4 Coax (S/PDIF) Input
Connect a Coax cable from the source to this port.

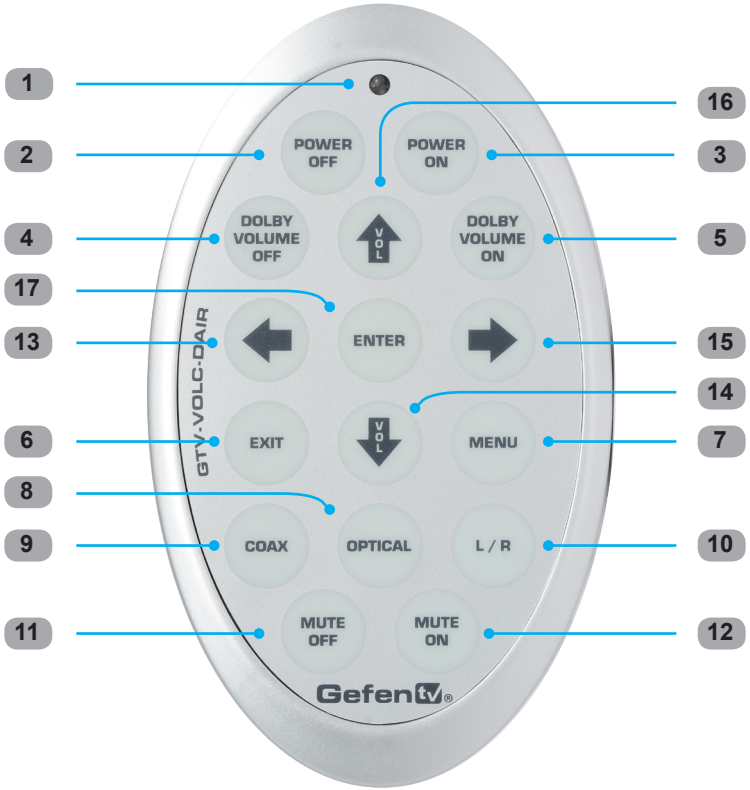
5 Analog L/R (RCA) Output
Connect a L/R RCA stereo pair from this output to a L/R RCA stereo input pair on the A/V equipment.

6 LFE (Subwoofer) Output
Connect a subwoofer to this output using a single RCA cable.

7 Front Left / Front Right Speaker Terminals
These speaker binding post terminals will accept spade lug, banana plug, dual banana plug, bare wire, and pin style connectors.

8 24 V DC Power Receptacle
Connect the included 24 V DC power supply to this receptacle.

IR REMOTE CONTROL LAYOUT



1 Activity Indicator
This LED will be activated momentarily each time a button is pressed.

2 Power Off
Turns off the unit.

3 Power On
Switches to the optical (TOSLINK) audio input.

4 Bypass On
Disables Dolby Volume control.

5 Bypass Off
Enables Dolby Volume control.

6 Exit Button
Exits a menu or sub-menu within the built-in menu system.

7 Menu
Places the unit in Menu Mode, allowing access to all menu systems.

8 Optical
Switches to the optical (TOSLINK) audio input.

9 Coax
Switches to the coax (S/PDIF) audio input.

10 L/R
Switches to the analog L/R RCA audio input.

11 Mute Off
Disables the volume muting.

12 Mute On
Enables the volume muting.

13 Left Cursor
Used to navigate right within the menu system.

14 Down Cursor
Used to navigate down within the menu system. This button is also used to decrease the volume.

15 Right Cursor
Used to navigate right within the menu system.

16 Up Cursor
Used to navigate up within the menu system. This button is also used to increase the volume.

17 Enter
Used to confirm / save a changes within the built-in menu system.

Installing the Battery

1. Remove the battery cover on the back of the IR Remote Control Unit.
2. Insert the included battery into the open battery slot. The positive (+) side of the battery should be facing up.
3. Replace the battery cover.

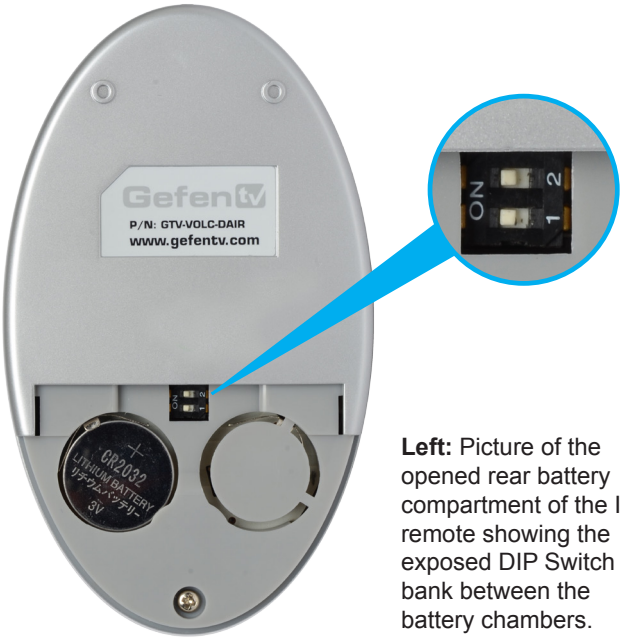
The Remote Control unit ships with two batteries. One battery is required for operation and the other battery is a spare.

Battery Slot
(shown with battery)

WARNING: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Setting the IR Channel on the IR Remote Control

In the event that IR commands from other remote controls interfere with the supplied IR Remote Control unit, changing the IR Remote Control's IR channel will fix the problem. The IR Remote Control unit has a bank of DIP switches used for setting the IR channel. The DIP switch bank is located underneath the battery cover.



Left: Picture of the opened rear battery compartment of the IR remote showing the exposed DIP Switch bank between the battery chambers.

Corresponding DIP Switch Settings for each IR Channel

IR Channel 0 (default)

IR Channel 1

IR Channel 2

IR Channel 3

It is important that the IR channel on the Remote Control unit, matches the IR channel set on the 2.1 Audio Amplifier w/ Volume Stabilizer. For example, if both DIP switches on the IR Remote Control unit are set to IR channel 0 (both DIP switches down), then the 2.1 Audio Amplifier w/ Volume Stabilizer must also be set to IR channel 0. See page 35 on how to change the IR channel on the 2.1 Audio Amplifier w/ Volume Stabilizer.

CONNECTING THE
2.1 AUDIO AMPLIFER W/ VOLUME STABILIZER

How to Connect the 2.1 Audio Amplifier w/ Volume Stabilizer

1. Connect the audio source to the GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer using the Optical, Coax and / or L/R analog audio cables.

2. Connect another set of L/R analog audio cables from the Audio Output section of the GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer to the inputs of the A/V equipment.

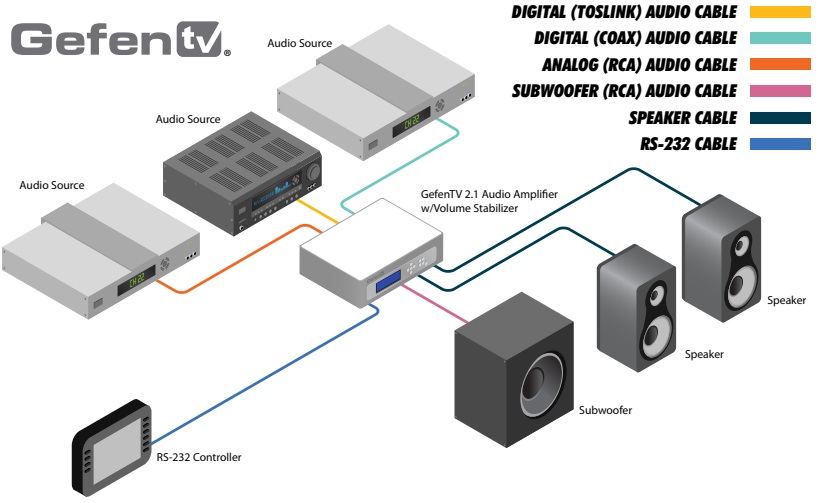
3. Connect the subwoofer to the 2.1 Audio Amplifier w/ Volume Stabilizer using a single RCA cable.

4. Connect up to two speakers to the speaker terminals of the 2.1 Audio Amplifier w/ Volume Stabilizer. The following connections are available:

   - Front Left
   - Front Right

5. Connect the included 24V DC power supply to the power receptacle on the Volume Stabilizer and connect the AC adapter to an available electrical outlet.

Wiring Diagram for the 2.1 Audio Amplifier w/ Volume Stabilizer



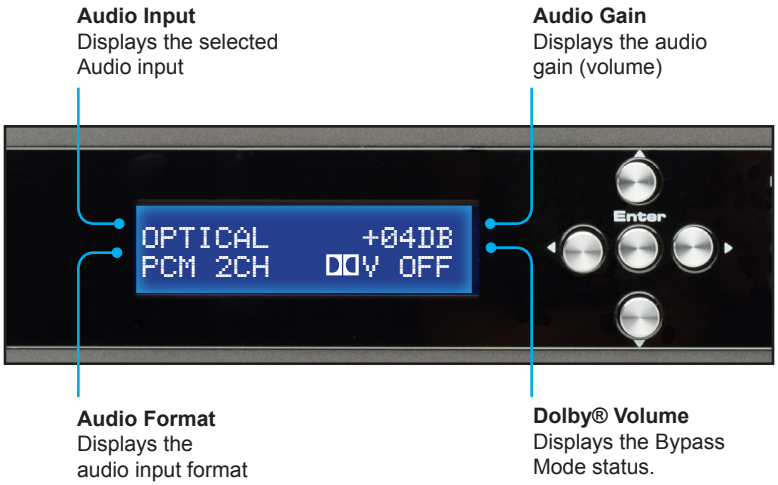
GTV-VOLCONT-DA

ATTENTION: This product should always be connected to a grounded electrical socket.

Status Screen

The Status Screen displays information regarding the current settings of the Volume Stabilizer The Status Screen is also used in conjunction with navigating the built-in Menu System.

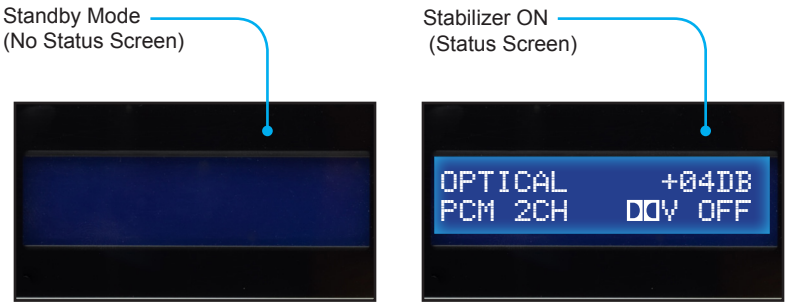
After powering on the Volume Stabilizer, the Standby Screen will be displayed. The Standby Screen indicates the currently selected A/V input, the current volume setting, the audio input format, and the audio processing mode:



Standby Mode and Powering the Volume Stabilizer

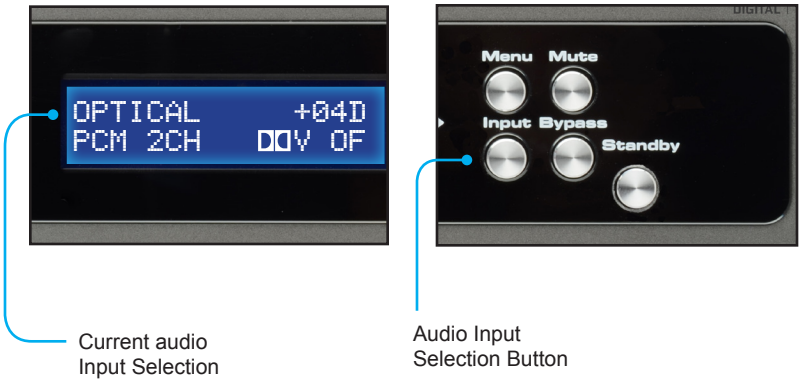
Once the power supply is connected and the AC power cord is connected to an available electrical outlet, the Volume Stabilizer will be in Standby Mode. When in Standby Mode, the Status Screen is not displayed.

To power-on the Volume Stabilizer, press the **Standby** button on the front panel or use the **Power** button on the IR Remote Control.



Selecting the Audio Input

Use the Input Button to select between Coax (S/PDIF) or Optical (TOSLINK) inputs. Each time the Input Button is pressed, the Audio Amplifier will cycle to the next input option. The currently selected audio input will be displayed in the *Status Screen*:



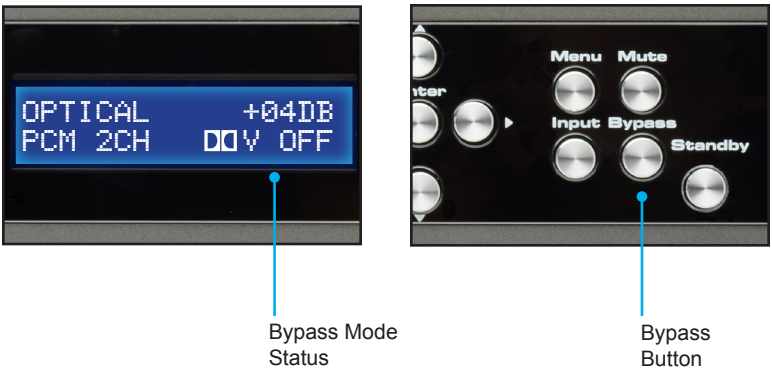
Adjusting the Volume

Use the Up Button and Down Button to increase or decrease the audio gain in the Status Screen. Audio gain can be reduced to a minimum of -60 dB and to a maximum of +10 dB. Each time these buttons are pressed, the volume is increased or decreased by 1 dB.

TIP: To increase or decrease the audio gain at a faster rate, press and hold the ▲ or ▼ buttons until the desired volume is achieved.

Bypass Mode

Bypass mode is recommended when listening to music or watching movies which have a wide dynamic range. When Bypass mode is enabled, Dolby® Volume processing is disabled. Bypass mode can be enabled or disabled by using the Bypass button on the front panel. Bypass mode can also be enabled or disabled through the Miscellaneous Menu (see page 22).



When Bypass Mode is enabled (Dolby® Volume disabled), press the Bypass button to disable Bypass Mode (Dolby® Volume enabled). To enable Bypass Mode again, press the Bypass button once.

The current state of Bypass Mode is displayed in the Status Screen.

Using the Menu System

The 2.1 Audio Amplifier w/ Volume Stabilizer comes with a built-in menu system which provides control over additional audio features. The following examples demonstrate some of the more common features of the Volume Stabilizer.

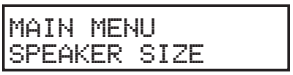
Setting the Speaker Size

Adjusting the speaker size determines how each speaker handles low frequency bands. The subwoofer has an option to disable the use of that channel. If the subwoofer is not going to be used, this channel should be set to *None*.

Speaker	Minimum Value	Maximum Value	Default Setting
Front L/R	Small	Large	Small
Sub	None	OnSub	None

Front Left / Front Right

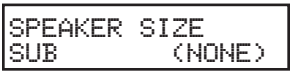
1. Press the **Menu** button. The front-panel display will change to display the Speaker Size menu:



2. Press the **Enter** button. Use the ◄ and ► button on the front panel to select between Small or Large for the Front Left and Front Right speaker size. The default setting is Small.

Subwoofer

3. Press the ▼ button. The following screen will be displayed:



Use the ◄ or ► buttons to enable or disable the Subwoofer output. If a Subwoofer is present, set the Subwoofer speaker size to OnSub. The default setting is None.

Subwoofer Crossover Frequency

If the speaker size for *Sub* is set to `OnSub`, then the subwoofer crossover frequency can be adjusted.

Speaker	Crossover Frequency		
Sub	50 Hz	60 Hz	90 Hz

4. Press the ▼ button. The following screen will be displayed:

```
SPEAKER SIZE
SUB FREQ. (50HZ)
```

Use the ◄ or ► buttons to adjust the crossover frequency.

Exiting the Speaker Size Menu

5. Press the ▼ button. The following screen will be displayed:

```
SPEAKER SIZE
EXIT
```

Press the **Enter** button on the front panel to return to the Speaker Size Menu.

Setting the Speaker Level

Modifying the Speaker Level increases or decreases the audio output gain of a specific speaker. This feature is useful for equalizing the sound at the listening position. By default, each speaker's output is set to 0 dB. The output can be adjusted by 1 dB increments between -10 dB and +10 dB.

Speaker	Minimum Value	Maximum Value	Default Setting
Front L	-10 dB	+10 dB	0 dB
Front R	-10 dB	+10 dB	0 dB
Sub	-10 dB	+10 dB	0 dB

Front Left

1. Press the **Menu** button. Use the ▲ or ▼ buttons on the front panel to navigate to the Speaker Level screen:

```
MAIN MENU
SPEAKER LEVEL
```

2. Press the **Enter** button. Use the ◄ and ► buttons on the front panel to adjust the speaker gain:

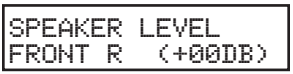
```
SPEAKER LEVEL
FRONT L  (+00DB)
```

The ◄ button is used to decrease the gain and the ► button is used to increase the gain. Each press of these buttons will increase or decrease the level of the gain by 1 decibel intervals.

TIP: Press and hold the ◄ or ►buttons to change values at a faster rate.

Front Right

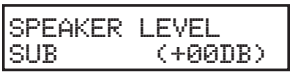
3. Press the ▼ button. The following screen will be displayed:



Use the ◄ and ► buttons on the front panel to adjust the speaker gain.

Subwoofer

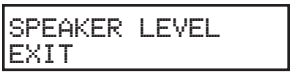
4. Press the ▼ button on the front panel. The following screen will be displayed:



Use the ◄ and ► buttons on the front panel to adjust the speaker gain.

Exiting the Speaker Level Menu

5. Press the ▼ button. The following screen will be displayed:



Press the **Enter** button on the front panel to return to the Speaker Level Menu.

Adjusting the Speaker Distance

Adjusting the speaker adds delay in the audio signal which allows the speaker to sound as if it is a certain distance away even when there is no space to physically position it father away from the listener. A 1ms delay is equivalent to moving the speaker away (from the listener) by 1 foot.

Speaker	Minimum Value	Maximum Value	Default Setting
Front L	0 ft	33 ft	0 ft
Front R	0 ft	33 ft	0 ft
Sub	0 ft	33 ft	0 ft

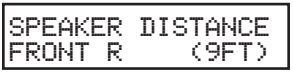
Front Left

1. Press the **Menu** button. Use the ▲ or ▼ buttons on the front panel to navigate to the Speaker Distance screen.

2. Press the **Enter** button. Use the ◄ and ► buttons on the front panel to adjust the speaker distance for the Front Left channel:

Front Right

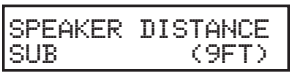
3. Press the ▼ button. The following screen will be displayed:



Use the ◄ and ► buttons on the front panel to adjust the speaker distance for the Front Right channel.

Subwoofer

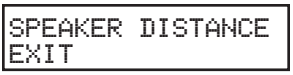
4. Press the ▼ button. The following screen will be displayed:



Use the ◄ and ► buttons on the front panel to adjust the speaker distance for the Subwoofer.

Exiting the Speaker Distance Menu

5. Press the ▼ button. The following screen will be displayed:



Press the **Enter** button on the front panel to return to the Speaker Distance Menu.

Adjusting Tone Control

The Tone Control menu allows you to adjust the treble and bass settings.

Control	Minimum Value	Maximum Value	Default Setting
Bass	-12 dB	+12 dB	0 dB
Treble	-12 dB	+12 dB	0 dB

Bass

1. Press the **Menu** button. Use the ▲ or ▼ buttons on the front panel to navigate to the Tone Control screen:

2. Press the **Enter** button. Use the ◄ and ► buttons on the front panel to adjust the amount of bass (low frequency boost) applied to the output audio signal:

Treble

3. Press the ▼ button. The following screen will be displayed:

Use the ◄ and ► buttons on the front panel to adjust the treble (high-frequency boost) applied to the output audio signal.

Exiting the Tone Control Menu

4. Press the ▼ button. The following screen will be displayed:

Press the **Enter** button on the front panel to return to the Tone Control Menu.

TIP: Pressing the Menu button twice from any sub menu option will return you to the Standby Screen.

Miscellaneous Setup

The Miscellaneous Setup Menu (Misc. Setup) provides controls for enabling or disabling Dolby® Volume, adjusting the Dolby® Volume threshold, down-mixing, line-out mode, IR channel, and front-panel display contrast settings.

Miscellaneous Setup Menu		
	2CH Downmix	Dolby Volume Level
Off	Lt/Rt	Low
On	Lo/Ro	Med
--	--	High

Line Out Mode	IR Channel
Fix	1
Amp	2
--	3
--	4

Bypass

Bypass mode is recommended when listening to music or watching movies which have a wide dynamic range. When Bypass mode is enabled, Dolby® Volume processing is disabled.

1. Press the **Menu** button on the front panel. Press ▲ or ▼ button on the front panel to navigate to the Miscellaneous Setup screen.

2. Press the **Enter** button. Use the ◄ and ► buttons on the front panel to enable (ON) or disable (OFF) Bypass Mode.

TIP: Bypass Mode can also be enabled or disabled by using the Bypass button, located on the front panel (see page 4).

2 Channel Downmix

3. Press the ▼ button on the front panel to display the 2 Channel Downmix screen:

Use the ◄ and ► buttons on the front panel to between Lo / Ro and Lt / Rt.

If the downmix is set to Lo / Ro, then only the Left and Right channels will be mixed down to 2 channel stereo.

If the downmix is set to Lt / Rt, then the Left, Right, and all Surround channels will be mixed-down to 2 channel stereo.

Dolby Volume Level

4. Press the ▼ button. The following screen will be displayed:

Use the ◄ and ► buttons on the front panel to select between Low, Med, and High settings.

Low: Minimal volume control between softer and louder audio passages.

Med: Medium volume control between softer and louder audio passages.

High: Highest contrast between softer and louder audio passages.

Line Out Mode

5. Press the ▼ button on the front panel to display the Line Out Mode screen:

Use the ◄ and ► buttons on the front panel to select between FIX and AMP modes.

FIX: Set the Line Out Mode to FIX if the volume will be controlled by an external amplifier.

AMP: Set the Line Out Mode to AMP if the volume will be controlled by the GefenTV 2.1 Audio Amplifier w/ Volume Stabilizer.

IR Channel

6. From the Line Out Mode screen, press the ▼ button on the front panel to display the IR Channel screen:

```
MISC SETUP
IR CHANNEL    (1)
```

Use the ◄ and ► buttons on the front panel to select the IR channel.

IMPORTANT: The IR channel setting on the Volume Stabilizer must be set to the same IR channel used by the Remote Control Unit. See page 36 for details on setting the IR channel for the Volume Stabilizer.

LCM Contrast

7. Press the ▼ button. The following screen will be displayed:

```
MISC SETUP
LCM CONTRAST (0)
```

Use the ◄ and ► buttons on the front panel to adjust the contrast of the front-panel LCD display.

Exiting the Tone Control Menu

8. Press the ▼ button. The following screen will be displayed:

```
MISC SETUP
EXIT
```

Press the **Enter** button on the front panel to return to the Miscellaneous Setup Menu.

Only Pins 2 (RX), 3 (TX), and 5 (Ground) are used on the RS-232 serial interface

RS-232 Settings

Bits per second 19200
Data bits 8
Parity ..... None
Stop bits 1
Flow Control ..... None

IMPORTANT: When sending RS-232 commands, a carriage return must be included at the end of the command. A space *must* be included between the command and the parameter.

NOTE: The return value will be displayed when using a terminal-based application, indicating the current value after executing the command. Commands are not case-sensitive.

Commands

Command	Description
2CHMX	2-channel downmixing
BASS	Increases / decreases the amount of bass
DFLT	Reset unit to factory (default) settings
DISPBRT	Display Brightness
DISTFL	Sets the distance for the Front Left speaker
DISTFR	Sets the distance for the Front Right speaker
DISTSB	Sets the distance for the Subwoofer
DV	Enables / Disables Dolby Volume
DVL	Sets the Dolby Volume Level
FLR	Sets the size of the Front Left / Front Right speakers
HELP	Lists these RS-232 commands
INFO	Returns hardware and firmware version
INPUT	Selects the audio input
INTYPE	Returns the input audio format
IR	Sets the IR channel
LFV	Sets the Left Channel level
MUTE	Enables / disables / toggles audio muting
POWER	Enables / disables/ toggles Power
RST	Resets the unit
RTV	Sets the Right Channel level
STAT	Enables / disables Auto Status
SUB	Enables / disables / sets the Subwoofer crossover freq.
SUBV	Adjusts the subwoofer volume
TREB	Increases / decreases the treble
VOL	Increases / decreases the overall output volume

2CHMX Command

The 2CHMX command...

Syntax:

```
2CHMX param1
```

Parameters:

param1 Value

Value	Meaning
LoRo	Downmix LoRo
LtRt	Downmix Lt/Rt

Notes:

Use ? for *param1* to retrieve the current value.

BASS Command

The BASS command sets the bass level.

Syntax:

```
BASS param1
```

Parameters:

param1 Level [-12 ...12]

Returns:

```
BASS value
```

Value	Meaning
-12 ... +12	Bass level

Notes:

The + or - character can also be used, instead of specifying a value, in order to increase or decrease the bass level by 1 dB.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

DFLT Command

The DFLT command sets the unit to the default settings.

Syntax:

```
DFLT
```

Parameters:

None

Returns

```
DEFAULT
```

DISPBRT Command

The DISPBRT command sets the brightness for the front panel LCD.

Syntax:

```
DISPBRT param1
```

Parameters:

param1 Value

Value	Meaning
+	Increase brightness level by 1
-	crease brightness level by 1

Returns

```
DISPBRT param1
```

DISTFL Command

The DISTFL command sets the distance (in feet) for the Front Left speaker.

Syntax:

```
DISTFL param1
```

Parameters:

param1	Distance	[0 ... 33]

Returns:

```
DISTFL param1
```

Notes:

The + or - character can also be used, instead of specifying a value, in order to increase or decrease the distance by 1 foot intervals.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

DISTFR Command

The DISTFR command sets the distance (in feet) for the Front Right speaker.

Syntax:

```
DISTFR param1
```

Parameters:

param1	Distance	[0 ... 33]

Returns:

```
DISTFR param1
```

Notes:

The + or - character can also be used, instead of specifying a value, in order to increase or decrease the distance by 1 foot intervals.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

DISTSB Command

The DISTFB command sets the distance (in feet) for the Subwoofer.

Syntax:

```
DISTSB param1
```

Parameters:

param1	Distance	[0 ... 33]

Returns:

```
DISTSB param1
```

Notes:

The + or - character can also be used, instead of specifying a value, in order to increase or decrease the distance by 1 foot intervals.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

DV Command

The DV command enables or disables the Dolby® Volume control.

Syntax:

```
DV param1
```

Parameters:

param1 Value [ON, OFF]

Value	Meaning
ON	Dolby® Volume On (Bypass Off)
OFF	Dolby® Volume Off (Bypass On)

Returns:

```
DV param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

DVL Command

The DVL command sets the Dolby® Volume level.

Syntax:

```
DVL param1
```

Parameters:

param1 Value [LOW, MED, HIGH]

Value	Meaning
LOW	Dolby® Volume Low
MED	Dolby® Volume Med
HIGH	Dolby® Volume High

Returns:

```
DVL param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

FLR Command

The FLR command sets the size for the Front Left / Front Right speakers.

Syntax:

```
FLR param1
```

Parameters:

param1 Size [0 ... 1]

Value	Meaning
SML	Small Front Speakers
LRG	Large Front Speakers

Returns:

```
FLR param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

HELP Command

The HELP command lists the RS-232 command set.

Syntax:

```
HELP?
```

Parameters:

?

Notes:

The ? character must follow the command without a space.

INFO Command

The INFO command returns hardware and firmware version.

Syntax:

```
INFO?
```

Parameters:

?

Notes:

The ? character must follow the command without a space.

INPUT Command

The INPUT command selects the audio input.

Syntax:

```
INPUT param1
```

Parameters:

param1 Value [LR, COAX, OPT]

Value	Meaning
LR	Analog L/R input
COAX	S/PDIF input
OPT	TOSLINK™ input

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

INTYPE Command

The INTYPE query command returns the audio input format.

Syntax:

`INTYPE`

Parameters:

None

Returns:

`Value` *Value*

Value	Meaning
PCM 2Ch	PCM Stereo
	Dolby Digital 2.1
	Dolby Digital 5.1

Notes:

None

IR Command

The IR command sets the IR channel.

Syntax:

```
IR param1
```

Parameters:

param1 Channel [1 ... 4]

Input	Meaning
1	IR Channel 1
2	IR Channel 2
3	IR Channel 3
4	IR Channel 4

Returns:

```
IR param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

LFV Command

The LFV command sets the output gain of the Left Channel.

Syntax:

```
LFV param1
```

Parameters:

param1 Value

Value	Meaning
+	Increase gain by 1 dB
-	Decrease gain by 1 dB

Returns:

```
LFV param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

MUTE Command

The MUTE command sets the audio mode.

Syntax:

```
MUTE param1
```

Parameters:

param1 Mode [0 ... 3]

Mode	Meaning
OFF	Disable mute
ON	Enable mute
TOGGLE	Mute toggle

Returns:

```
MUTE param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

POWER Command

The POWER command turns the unit ON or OFF.

Syntax:

```
POWER param1
```

Parameters:

param1 Mode [OFF, ON, TOGGLE]

Mode	Meaning
OFF	Power save mode
ON	Power On
TOGGLE	Toggle power state

Returns:

```
POWER param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

RST Command

The RST command resets the unit.

Syntax:

```
RST
```

Parameters:

None

RTV Command

The RTV command sets the output gain of the Right Channel.

Syntax:

```
RTV param1
```

Parameters:

param1 Value

Value	Meaning
+	Increase gain by 1 dB
-	Decrease gain by 1 dB

Returns:

```
RTV param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

STAT Command

The STAT command enables or disables auto status feedback.

Syntax:

```
STAT param1
```

Parameters:

param1 Mode [OFF, ON]

Mode	Meaning
OFF	Auto Status Off
ON	Auto Status On

Returns:

```
STAT param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

SUB Command

This command performs two functions: 1) Enabling or disabling the Subwoofer. 2) Specifies the Subwoofer crossover frequency.

Syntax:

```
SUB param1
```

Parameters:

param1 Mode [0 ... 1]

Mode	Meaning
OFF	Subwoofer Off
ON	Subwoofer On
50	Crossover freq = 50 Hz
60	Crossover freq = 60 Hz
90	Crossover freq = 90 Hz

Returns:

```
SUB param1
```

Notes:

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

SUBV Command

The SUBV command sets the volume level of the Subwoofer.

Syntax:

```
PWR param1
```

Parameters:

param1	Range	[-12 ... 12]

Returns:

```
SUBV value
```

Notes:

The + or - character can also be used, instead of specifying a value, in order to increase or decrease the Subwoofer level by 1 dB intervals.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

TREB Command

The TREB command sets the treble level.

Syntax:

```
TREB param1
```

Parameters:

param1	Range	[-12 ... 12]

Returns:

```
TREB param1
```

Notes:

The + or - character can also be used, instead of specifying a value, in order to increase or decrease the treble level by 1 dB intervals.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

VOL Command

The VOL command sets the master output gain.

Syntax:

```
VOL param1
```

Parameters:

param1	Range	[-12 ... 12]

Returns:

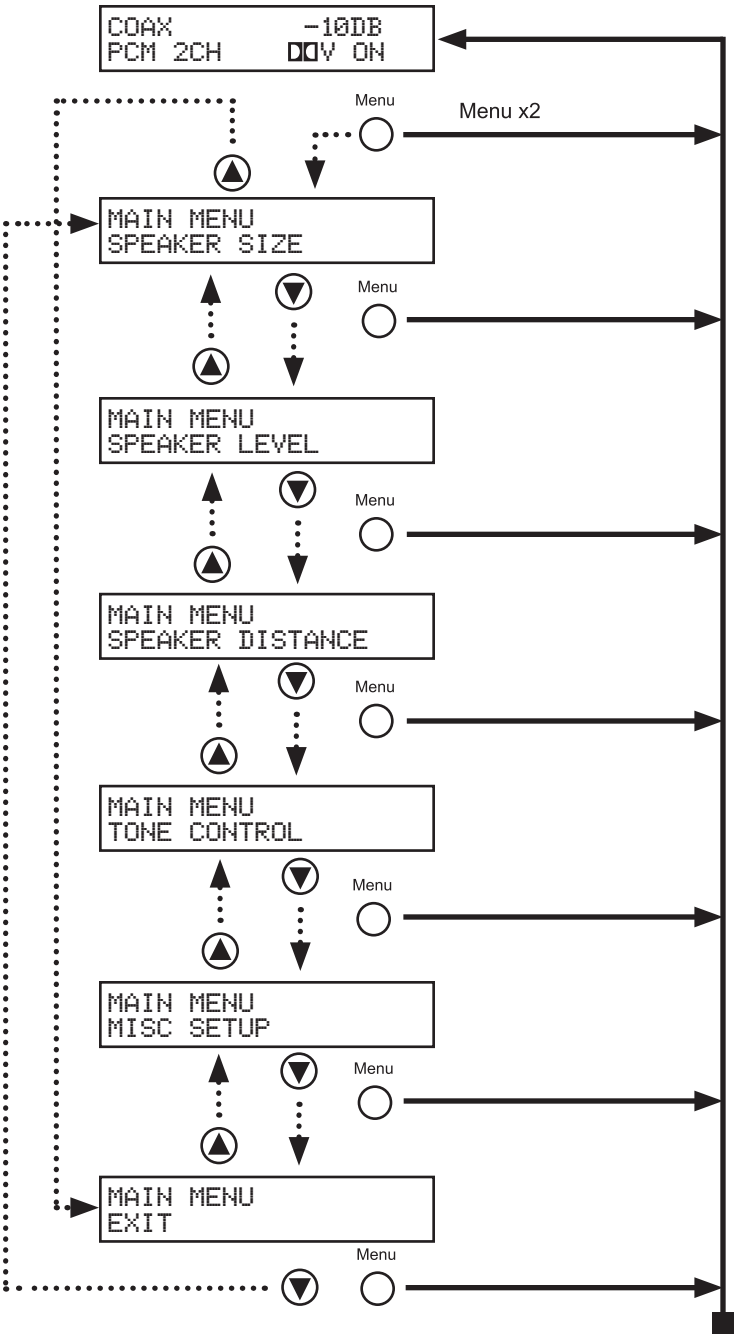
```
VOL value
```

Notes:

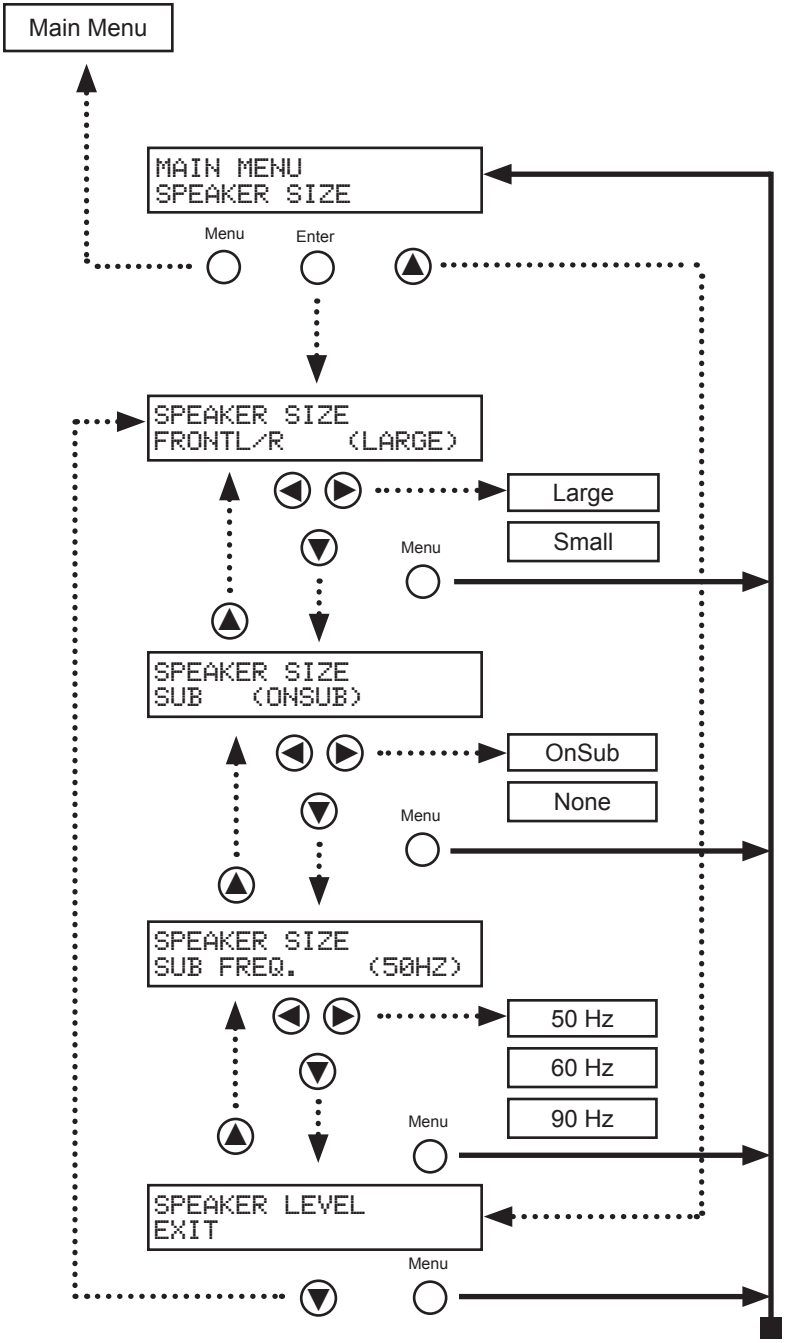
The + or - character can also be used, instead of specifying a value, in order to increase or decrease the master output gain by 1 dB intervals.

Use ? for *param1* to retrieve the current value. When using a ? for *param1*, do not include a space between the command and the parameter.

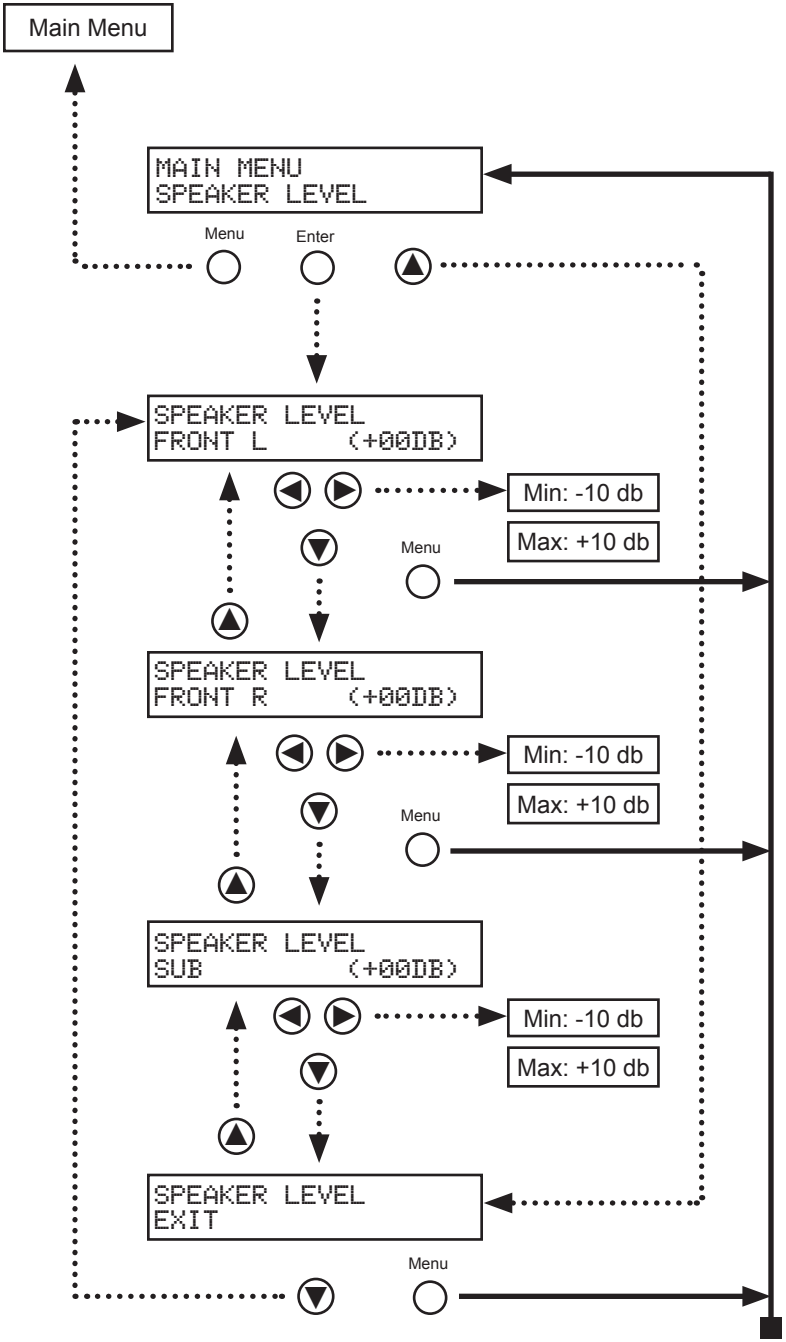
Main Menu


COAX -10DB
PCM 2CH □□V ON
Menu
Menu x2
MAIN MENU
SPEAKER SIZE
Menu
MAIN MENU
SPEAKER LEVEL
Menu
MAIN MENU
SPEAKER DISTANCE
Menu
MAIN MENU
TONE CONTROL
Menu
MAIN MENU
MISC SETUP
Menu
MAIN MENU
EXIT
Menu

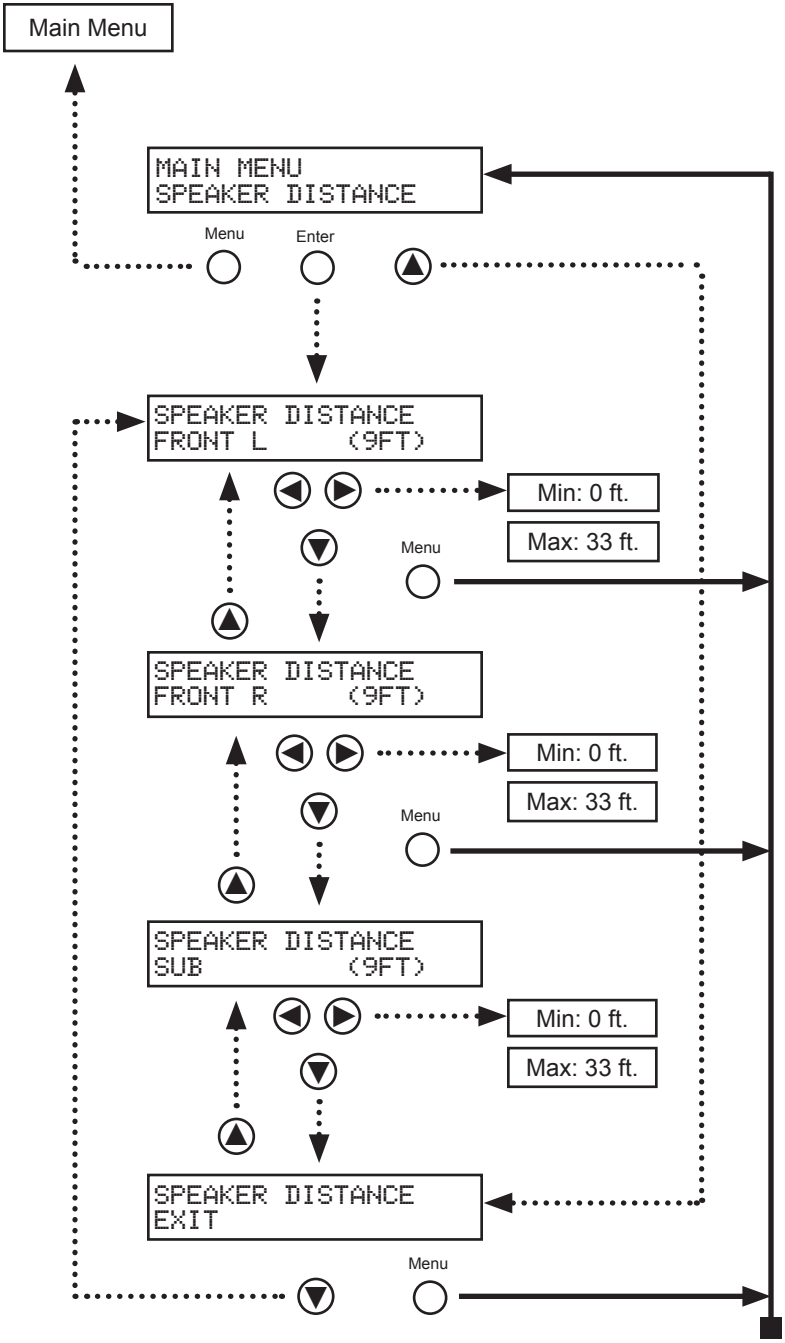
Speaker Size



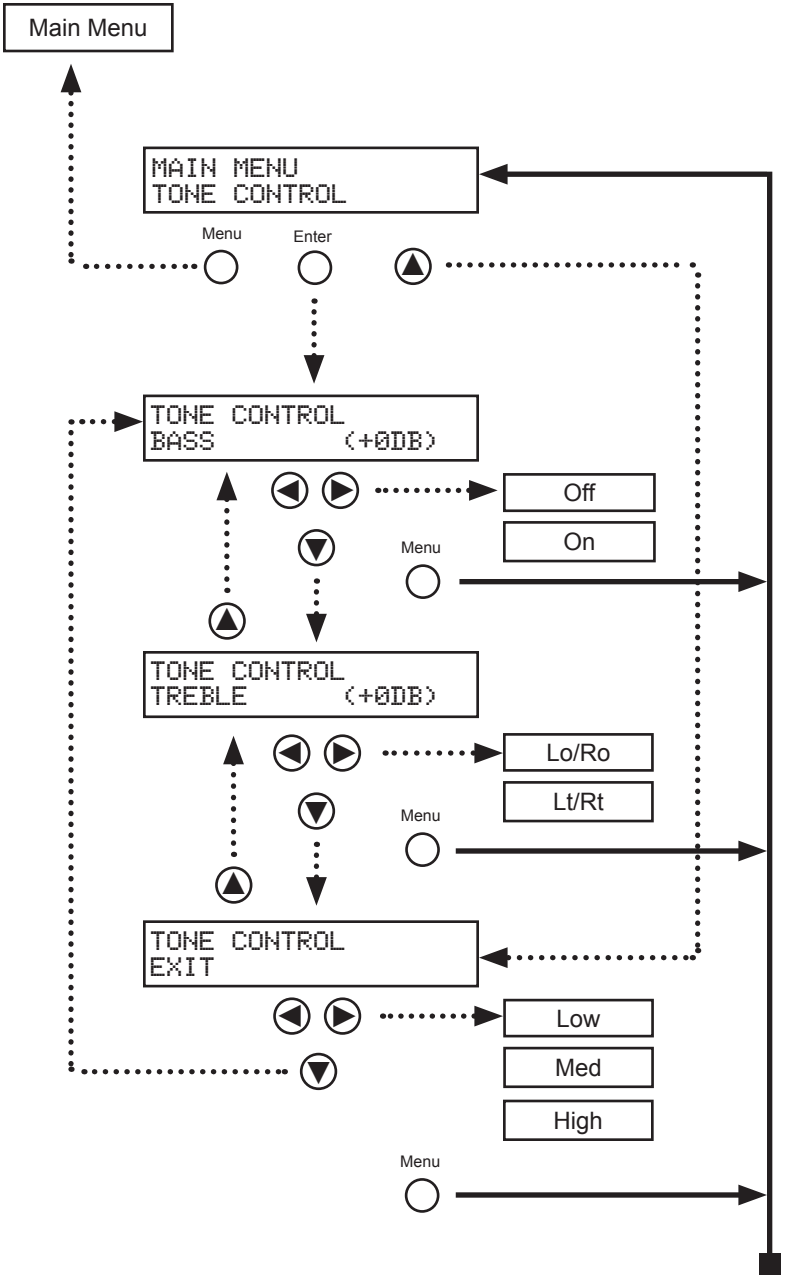
Speaker Level



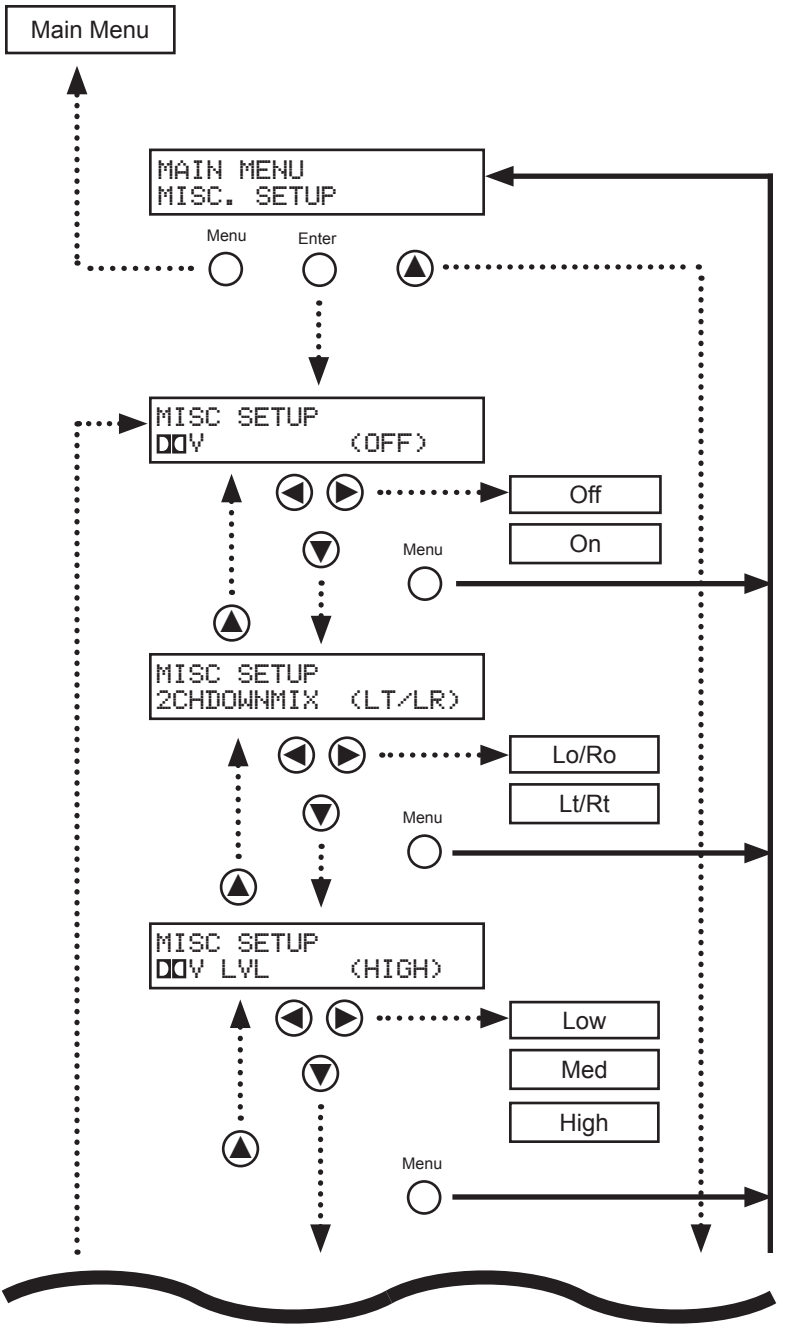
Speaker Distance

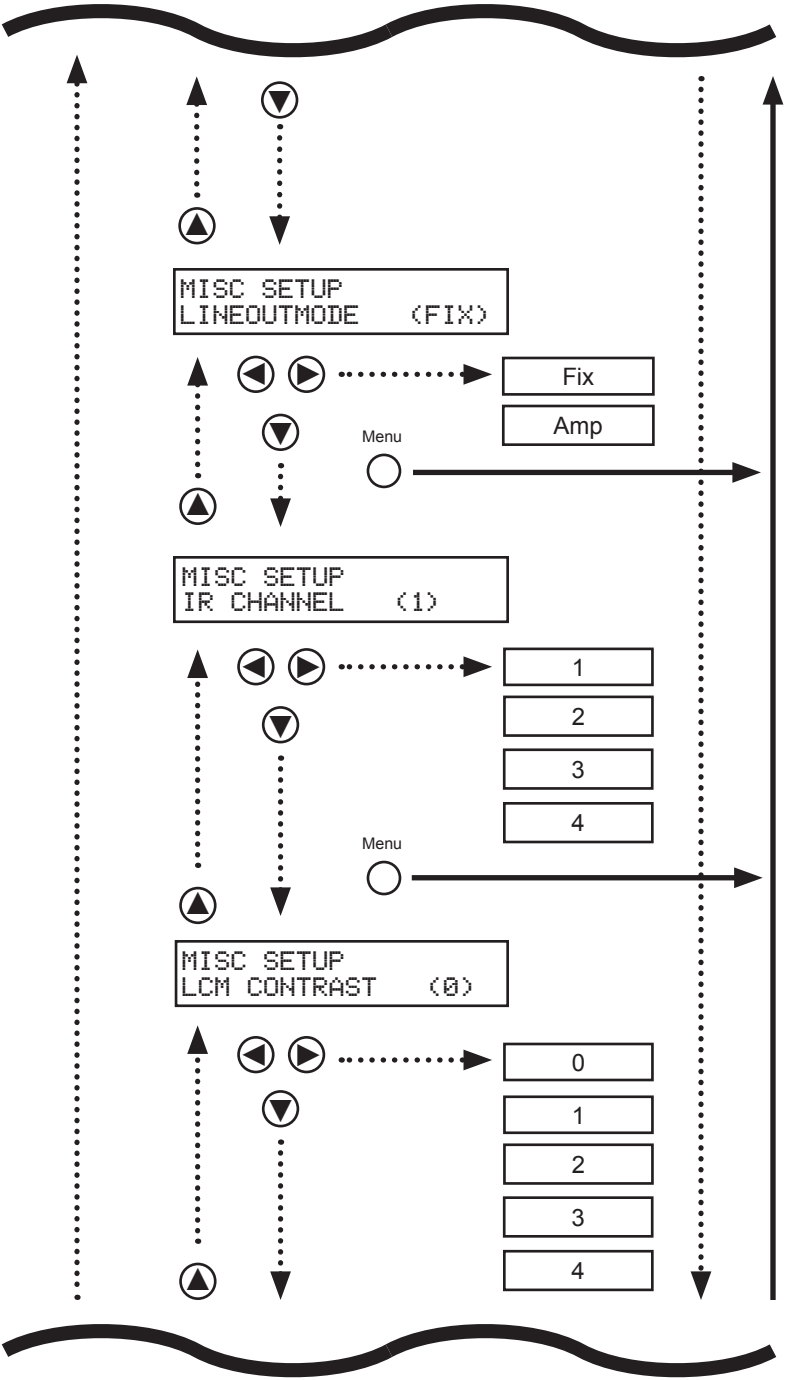


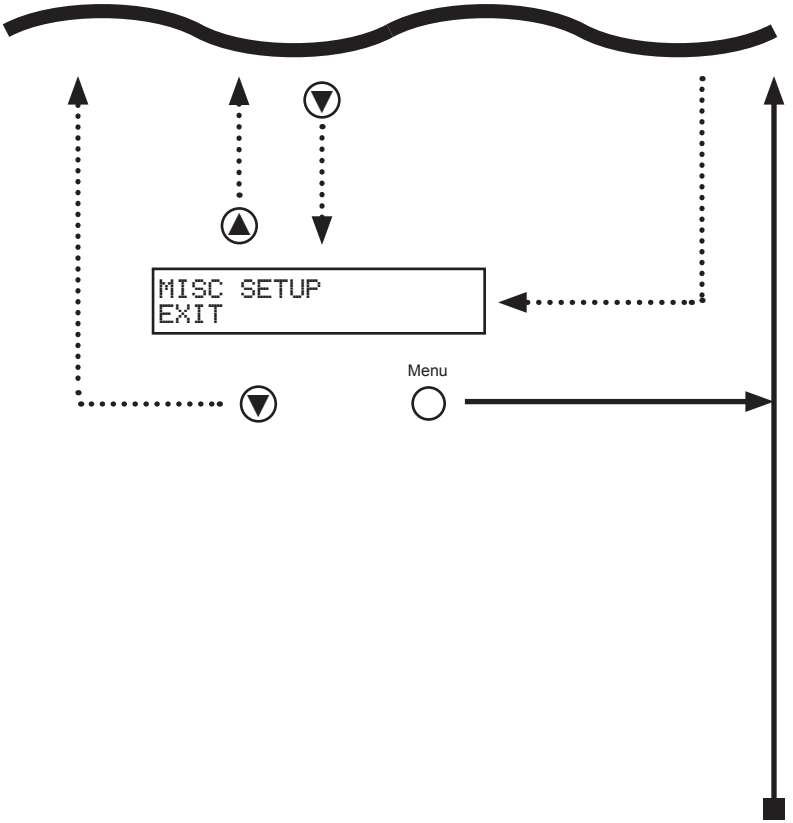
Tone Control



Miscellaneous Setup




MISC SETUP
LINEOUTMODE (FIX)
Fix
Amp
Menu
MISC SETUP
IR CHANNEL (1)
1
2
3
4
Menu
MISC SETUP
LCM CONTRAST (0)
0
1
2
3
4


MISC SETUP
EXIT
Menu

SPECIFICATIONS

Speaker Output..... 25 W per channel RMS

SNR.....> 90 dB

THD.....< 0.001% at 0 dBFS or 2 V rms Analog In

Frequency Response..... 20 Hz - 20 kHz (± 0.5 dB)

Analog Audio Input..... (1) L/R, (2) RCA jacks

Digital Audio Inputs..... (1) TOSLINK, (1) S/PDIF

Analog Audio Output..... (1) L/R + LFE, (3) RCA jacks

Speaker Connectors..... L/R Binding Posts

RS-232 Serial Port..... DB-9, female

Front panel buttons.....Up, Down, Left, Right, Enter, Menu, Mute, Input, Bypass, Standby

Power Supply..... 24 V DC

Operating Temperature..... 0 ~ 40 °C

Dimensions..... 9” W x 2.4” H x 6.75” D

Shipping Weight..... 3.4 lbs.

Certifications..... UL (power supply), CE (safety and EMC), RoHS, WEEE

Gefen warrants the equipment it manufactures to be free from defects in material and workmanship.

If equipment fails because of such defects and Gefen is notified within two (2) years from the date of shipment, Gefen will, at its option, repair or replace the equipment, provided that the equipment has not been subjected to mechanical, electrical, or other abuse or modifications. Equipment that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for ninety (90) days from the day of reshipment to the Buyer.

This warranty is in lieu of all other warranties expressed or implied, including without limitation, any implied warranty or merchantability or fitness for any particular purpose, all of which are expressly disclaimed.

1. Proof of sale may be required in order to claim warranty.

2. Customers outside the US are responsible for shipping charges to and from Gefen.

3. Copper cables are limited to a 30 day warranty and cables must be in their original condition.

The information in this manual has been carefully checked and is believed to be accurate. However, Gefen assumes no responsibility for any inaccuracies that may be contained in this manual. In no event will Gefen be liable for direct, indirect, special, incidental, or consequential damages resulting from any defect or omission in this manual, even if advised of the possibility of such damages. The technical information contained herein regarding the features and specifications is subject to change without notice.

For the latest warranty coverage information, refer to the Warranty and Return Policy under the Support section of the Gefen Web site at www.gefen.com.

PRODUCT REGISTRATION

Please register your product online by visiting the Register Product page under the Support section of the Gefen Web site.

Rev A1

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This product uses UL listed power supplies.